## **REMARKS**

Claims 1-13 are amended to place the claims in more proper form to conform to U.S. practice.

Claim 1 is further amended to more clearly pointed out the claimed subject matter. Support for amendment to claim 1 can be found in the specification, for example, at pages 18-21.

New dependent claims 14-17 are added.

Support for claims 14-15 can be found, for example, in original claim 7.

Support for claim 16 can be found, for example, in original claim 9.

Support for claim 17 can be found, for example, in original claim 10.

No new matter is added. Accordingly, Applicants respectfully request entry and consideration of the Amendment.

Upon entry of the Amendment, which is respectfully requested, claims 1-17 will be pending.

## I. Drawing

Initially, Applicants wish to point out that drawings (Figs. 1-6) were filed on September 1, 2006 at the time of filing the present application. Applicants request the Examiner to acknowledge the receipt and confirm the acceptance of the drawings.

## II. Information Disclosure Statement

The Examiner has initialed the two U.S. patent references listed on the Form PTO/SB/08 submitted with the Information Disclosure Statement (IDS) filed September 1, 2006, thereby confirming that those two references have been considered by the Examiner.

However, the Examiner indicates that copies of four non-U.S. patent references (DE 19631654 and GB 1095056 and two non-patent literature articles) cited in the International

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Search Report (ISR) have not been received, and therefore those references have not been

considered.

Applicants wish to point out that in normal course of action, the USPTO should have

received copies of the references cited in the ISR from the International Bureau. Nevertheless, in

an effort to facilitate the prosecution, Applicants submit herewith a supplemental IDS with

copies of the four references the Examiner states are missing.

Applicants kindly request the Examiner to consider and attach an initialed and signed

copy of the form to the next communication to Applicants.

III. **Specification Objection** 

The specification is objected to because of informalities.

The Examiner suggests that at page 6, lines 6-8, "[T]he method and device of the present

invention provide great measurement flexibility and precision, and also make it possible..."

should be "[T]he method and device of the present invention provides great measurement

flexibility and precision, and also makes it possible...." Further, the Examiner suggests that at

page 6 line 16 "[I]n a first way..." should be "[I]n a first embodiment...."

The specification has been amended, accordingly, to correct the noted minor errors.

Withdrawal of the objection to the specification is respectfully requested.

IV. **Claim Objections** 

Referring to Section Nos. 3-4 of the Action, claims 4-7 and 11 are objected to as being in

improper form because a multiple dependent claim cannot depend from another multiple

dependent claim. Claims 8-10 are objected to as being in improper form because they depend

from a non-considered improperly multiple dependent claim.

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As a result of the improper form, the Examiner states that claims 4-11 have not been

further examined on the merits.

In response, claims 4-11 have been amended to depend from independent claim 1.

Applicants respectfully request the Examiner to consider claims 4-11 as amended.

Claims 4-11 are allowable at least for the same reason with respect to the patentability of

independent claim 1, as discussed below.

V. Double Patenting Rejection

Referring to Section No. 6 of the Action, claims 1, 3-4 and 6-12 are rejected on the

ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-

15 of U.S. Patent No. 7,291,836.

Without acquiescing to the merits of the rejection, to advance prosecution, the common

Assignee submits herewith a Terminal Disclaimer, disclaiming the terminal part of the statutory

term of any patent granted on the present application which would extend beyond the expiration

date of the full statutory term of U.S. Patent No. 7,291,836, to thereby obviate the foregoing

rejection.

Withdrawal of the present double patenting rejection is respectfully requested.

VI. Claim Rejections under 35 U.S.C. § 103

Referring to Section No. 8 of the Action, claims 1 and 12-13 are rejected under 35 U.S.C.

\$103(a) as being unpatentable over U.S. Patent No. 3.471,696 (referred to as "Lange" by the

Examiner in the Office Action; "Lange") in view of Tanaka (U.S. Patent Application Publication

No. 2002/0129586; "Tanaka"), and further in view of Vitale et al. (U.S. Patent No. 6,294,389;

"Vitale").

Referring to Section No. 11 of the Action, claims 2-3 are rejected under 35 U.S.C.

§103(a) as being unpatentable over Lange in view of Tanaka and Vitale, and further in view of

Borza et al. (U.S. Patent No. 4,406,778; "Borza").

Essentially, the Examiner takes the position that Lange discloses the claimed invention,

except for the recitations that (1) some of the separated, collected oil is returned to the oil sump,

and (2) the results of these measurements are sent to a computer capable of calculating the

consumption of lubricating oil not separated in said separation system from these results.

Tanaka and Vitale are then relied upon to make up the noted deficiencies of Lange.

Applicants respectfully traverse.

Claims 1 and 12 are independent claims, from which all remaining claims depend, and

relate to a method and device for determining oil consumption coming from an oil separation

system located in a circuit for recycling blowby gases of an internal combustion engine.

Claim 1 presently recites, in part, steps of subsequently bringing the blowby gases

coming from the oil separation system to an oil trapping device located downstream of said oil

separation system, whereby the oil not separated from the blowby gases coming from the oil

separation system is retained in the oil trapping device; and measuring the radioactivity of the oil

retained in the oil trapping device by using a detector, which is placed near the oil trapping

device and is sensitive to the ionizing radiation emitted by the radioactive tracer(s).

Claim 12 presently recites, a device for determining the consumption of oil coming from

an oil separation system located in a circuit for recycling blowby gases of an internal combustion

engine comprising, in part, downstream of the oil separation system, an oil trapping device; a

detector sensitive to the ionizing radiation emitted by the radioactive tracer(s), located in the

immediate vicinity of the trapping device, so as to measure the radioactivity of the oil not

Separated in the oil separation system but retained in the oil trapping device.

Lange, or the combined disclosure of Lange and other cited references, does not disclose,

teach or suggest the claimed configuration, as recited in present claims 1 and 12. Specifically,

Lange does not disclose or teach a trapping device for trapping the oil not separated from the

blowby gases that comes from the oil separation system (2). As such, Lange obviously also fails

to disclose or teach measuring the radioactivity of the oil not separated in the oil separation

system (2) and retained in the oil trapping device (4) using a detector (3).

As shown in Fig. 1 of Lange, the exhaust gases are brought from engine 10 to diverter

valve 18, and then to extraction tower 22 (i.e., the separation system). The gases emitted from

the top of the tower (22) are vented to the atmosphere through tube 32. According to Lange

(Col. 4, lines 45-52), after the exhaust gas passes through the sodium hydroxide solution from a

predetermined period in the extraction tower 22, a sample 42 of the solution is taken from the

tower (22) via the drain 36 and is collected in a sample holder 44, which is then transferred to a

well-type scintillation detector 46 were the radiations are detected and counted.

The Examiner considers the sample holder 44 of Lange is equivalent to the claimed oil

trapping device of present application. See the Action, at page 5, first paragraph.

Applicants respectfully disagree.

The sample holder 44 of Lange is clearly not an oil trapping device, as required by

present claims, because the sample holder 44 of Lange is not capable of trapping and retaining

oil from the blowby gases.

In addition, as acknowledged by the Examiner, Lange fails to disclose or teach that some

of oil contained within the gasses is separated, collected and returned to an oil sump. However,

Tanaka is relied upon to make up the deficiencies of Lange in this regard. See the Action, at page

5, second and third paragraphs.

Applicants submit that there is no motivation to modify the extraction tower 22 of Lange

with the oil separator of Tanaka in the manner suggested by the Examiner, as explained below.

Tanaka relates to an oil separator that is suitable for a gas engine for a gas heat pump

type air conditioner. Tanaka discloses an oil separator for separating oil from a gaseous fluid

containing oil in the state of a mist (Abstract).

Tanaka is non-analogous art, as it is not in the field of Applicant's endeavor and not

reasonably pertinent to the particular problem with which the Applicant has addressed. Further,

Tanaka provides no reason for modifying the structure of the extraction tower 22 of Lange.

Accordingly, an ordinary skilled in the art would not have been motivated to modify the

extraction tower 22 of Lange with the oil separator of Tanaka.

Vitale is cited by the Examiner as teaching that the results of these measurements are sent

to a computer capable of calculating the consumption of lubricating oil not separated in said

separation system from these results. Vitale does not make up the noted deficiencies of Lange

and Tanaka.

In view of the claim amendment and the foregoing remarks, Applicants respectfully

submit that the cited prior art references, either alone or taken together do not disclose, teach or

suggest all the individual elements as required in independent claims 1 and 12.

Claims 2-11 and 14-17 depend primarily or secondarily from claim 1, thus, those claims

are patentable for at least the reasons discussed above with respect to the patentability of

independent claim 1.

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Claim 13 depends from claim 12, and thus, is patentable for at least the reasons discussed

above with respect to the patentability of independent claim 12.

Accordingly, Applicants respectfully request reconsideration and withdrawal of the

§103(a) rejection.

VII. Conclusion

In view of the above, reconsideration and allowance of this application are now believed

to be in order, and such actions are hereby solicited. If any points remain in issue which the

Examiner feels may be best resolved through a personal or telephone interview, the Examiner is

kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue

Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any

overpayments to said Deposit Account.

Respectfully submitted,

/Yan Lan/

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